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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/704,725

DATE: 10/10/2001

TIME: 11:23:57

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Output Set: N:\CRF3\10102001\I704725.raw

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3 <110> APPLICANT: TAUCH, ANDREAS
 4 KALINOWSKI, JORN
 5 PUHLER, ALFRED
 6 THIERBACH, GEORG
 8 <120> TITLE OF INVENTION: PLASMIDS FROM CORYNEBACTERIUM GLUTAMICUM AND USE THEREOF
 10 <130> FILE REFERENCE: 21123/274355
 12 <140> CURRENT APPLICATION NUMBER: 09/704,725
 13 <141> CURRENT FILING DATE: 2000-11-03
 15 <160> NUMBER OF SEQ ID NOS: 10
 17 <170> SOFTWARE: PatentIn Ver. 2.1
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 21 <212> TYPE: DNA
 22 <213> ORGANISM: Corynebacterium glutamicum
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 27 <223> OTHER INFORMATION: para
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 50 Val Leu Leu Cys Ala Ala Ala His Ala Arg Gly Leu Ala Val Thr Leu
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 54 Ile Asp Ser Asp Ala Gln Gly Thr Ala Thr Ala Trp Ala His Ala Ala
 55 40 45 50
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 58 Glu Glu Ala Gly Asp Thr Phe Pro Trp Pro Ile Ile Thr Ala Ala Thr
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 63 Pro Ala His Leu Ala Arg Thr Leu Asp Gly His Asn Gly Leu Val Ile
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 67 Val Asp Thr Pro Pro Gly Gly Tyr Glu Val Ile Glu Thr Ala Ile Glu
 68 85 90 95

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74 aat cga gtc tgg cca act gtt gag gcc acc agt cac aag ccc gcc gta 620
75 Asn Arg Val Trp Pro Thr Val Glu Ala Thr Ser His Lys Pro Ala Val
76 120 125 130
78 gtc tgt cta tcc cag atc gac tcc cgc acc acc ttg ccc aag att gcc 668
79 Val Cys Leu Ser Gln Ile Asp Ser Arg Thr Thr Leu Pro Lys Ile Ala
80 135 140 145
82 cgt acc gca ctt gaa aac gaa ggc gtc gtc gtc gct gaa acg gag atc 716
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84 150 155 160
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88 165 170 175
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91 Leu Tyr Gly Tyr Asp Glu Leu Leu Thr Glu Leu Leu Ser Ser Asn Leu
92 180 185 190 195
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131 200 205 210
133 cgt gtt gcc caa cca ctg ccc acc cac cgc gac act ggc ggc ctg gac 1921
134 Arg Val Ala Gln Pro Leu Pro Thr His Arg Asp Thr Gly Gly Leu Asp
135 215 220 225 230
137 gac acc ccg gca gga ttc act gat cgt gat gca ctt ata gat cat ctc 1969
138 Asp Thr Pro Ala Gly Phe Thr Asp Arg Asp Ala Leu Ile Asp His Leu
139 235 240 245
141 ggg cgt aaa gca atc cac gga agc aaa gac cgt gac ttc ggc aaa gct 2017
142 Gly Arg Lys Ala Ile His Gly Ser Lys Asp Arg Asp Phe Gly Lys Ala
143 250 255 260
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151		280					285					290					
153	caa	tac	gcc	gct	gta	tta	gtg	gtc	gat	att	gac	cag	ccc	ggc	caa	tcg	2161
154	Gln	Tyr	Ala	Ala	Val	Leu	Val	Val	Asp	Ile	Asp	Gln	Pro	Gly	Gln	Ser	
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157	gga	ggg	cac	cca	gcg	aac	tta	tcg	cct	gag	gtt	cgt	cag	aag	atg	gcc	2209
158	Gly	Gly	His	Pro	Ala	Asn	Leu	Ser	Pro	Glu	Val	Arg	Gln	Lys	Met	Ala	
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161	gct	ctt	atc	gag	cac	aac	ctt	ggg	ccg	tcg	tgg	gtg	ggc	att	aat	ccc	2257
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163				330					335					340			
165	caa	aac	ggt	aaa	gca	cag	gcg	atc	tgg	ttg	att	gat	ccg	gtg	tac	gca	2305
166	Gln	Asn	Gly	Lys	Ala	Gln	Ala	Ile	Trp	Leu	Ile	Asp	Pro	Val	Tyr	Ala	
167			345					350					355				
169	gac	aaa	agc	ggc	aaa	tct	cgg	cat	atg	agt	ctg	ctt	gcc	gcg	acg	agc	2353
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179	Phe	Ser	Arg	Ser	Pro	Phe	Tyr	Asp	Gly	Asn	Asp	Pro	Thr	Ala	Tyr	Arg	
180				395					400					405			
182	tgg	tat	tgc	cag	cac	aaa	cac	gtg	cgc	cgg	tta	gct	gat	ctt	ctt	aag	2497
183	Trp	Tyr	Cys	Gln	His	Lys	His	Val	Arg	Arg	Leu	Ala	Asp	Leu	Leu	Lys	
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191	Gln	Phe	Ser	Ser	Gly	Arg	Glu	Leu	Ile	Asn	Ala	Val	Lys	Thr	Arg	Arg	
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194	gaa	gaa	gcc	caa	gca	ttt	aaa	gca	ctt	gcc	cag	gac	gtc	gag	acc	gaa	2641
195	Glu	Glu	Ala	Gln	Ala	Phe	Lys	Ala	Leu	Ala	Gln	Asp	Val	Glu	Thr	Glu	
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198	ctc	agc	aca	gag	ctt	gat	cag	tac	gac	ccg	gaa	ctt	atc	gaa	ggg	gta	2689
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219 Met Arg Asp Arg Gln Thr Met Ala Arg Arg Val Arg Gly Tyr Val Thr
220      555      560      565
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224      570      575      580
226 agc act gaa cgt aaa gca tta tcc acg atg ggg cgt cga ggc ggt aaa 3025
227 Ser Thr Glu Arg Lys Ala Leu Ser Thr Met Gly Arg Arg Gly Gly Lys
228      585      590      595
230 aag gcc gca gaa cgc tgg aaa gac cgt gag agc cat tac gcg caa act 3073
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232      600      605      610
235 gaa ttg gaa aag ctt gcc gat gcc agt aag aag cgt tca aga aaa gcc 3121
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240 Lys Gly Thr Arg Leu Thr Ile Ala Gly Trp Val Met Ser Val Glu Ser
241      635      640      645
243 gag aca ggt gca tgg cct act atc gct gag gcg atg gtg gag ttt tcg 3217
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248 Val Ser Arg Glu Thr Val Lys Arg Ala Leu Arg Ser Ala Gly Ile Glu
249      665      670      675
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252 Leu Pro Arg Gly Arg Arg Lys Thr Ser Asn
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311 35 40 45

313 His Ala Ala Glu Glu Ala Gly Asp Thr Phe Pro Trp Pro Ile Ile Thr

314 50 55 60

316 Ala Ala Thr Pro Ala His Leu Ala Arg Thr Leu Asp Gly His Asn Gly

317 65 70 75 80

319 Leu Val Ile Val Asp Thr Pro Pro Gly Gly Tyr Glu Val Ile Glu Thr

320 85 90 95

322 Ala Ile Glu Ala Gly Asp Leu Ile Leu Ile Pro Thr Ser Ala Ser Pro

323 100 105 110

325 Leu Asp Ile Asn Arg Val Trp Pro Thr Val Glu Ala Thr Ser His Lys

326 115 120 125

328 Pro Ala Val Val Cys Leu Ser Gln Ile Asp Ser Arg Thr Thr Leu Pro

329 130 135 140

331 Lys Ile Ala Arg Thr Ala Leu Glu Asn Glu Gly Val Val Val Ala Glu

332 145 150 155 160

334 Thr Glu Ile Pro Ala Arg Glu Ala Leu Arg His Met Tyr Ala Thr Thr

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340 Ser Asn Leu Leu Gly Glu His

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357 35 40 45

359 Arg Lys Ala Ile His Gly Ser Lys Asp Arg Asp Phe Gly Lys Ala Tyr

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362 Tyr Arg His Glu Asp Gly Thr Leu Arg Pro Arg Leu Tyr Arg Val Asp

363 65 70 75 80

VERIFICATION SUMMARY

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